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SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name Precept® 300 EC Selective Herbicide

Other names none
Product code (UVP) 79032919
Chemical Group Phenoxy
Pyrazolone

Pyrazolone pyrazole

Recommended use Herbicide

Chemical Formulation Emulsifiable concentrate (EC)
Company Bayer Cropscience Pty Ltd

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SECTION 2. HAZARDS IDENTIFICATION

	Emergency Overview	
HAZARDOUS SUBSTANCE		DANGEROUS GOODS

Hazardous classification Hazardous (National Occupational Health and Safety Commission -

NOHSC)

R-phrase(s) R36 - Irritating to eyes.

R38 - Irritating to skin.

R43 - May cause sensitisation by skin contact. R65 - Harmful: may cause lung damage if swallowed. R63 - Possible risk of harm to the unborn child.

S-phrase(s) See sections 4, 5, 6, 7, 8, 10, 12, 13.

ADG Classification "Dangerous goods" for transport by road or rail according to the

Australian Code for the Transport of Dangerous Goods by Road and

Rail. - See Section 14.

SUSMP classification (Poison

Schedule 5 (Standard for the Uniform Scheduling of Medicines and

Schedule) Poisons)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

MCPA: Pyrasulfotole: Mefenpyr-diethyl 250:50:12.5 g/l

Chemical Name	CAS-No.	Concentration [%]
MCPA 2-ethylhexyl ester	29450-45-1	37.14
Pyrasulfotole	365400-11-9	4.76
Mefenpyr-diethyl	135590-91-9	1.19
gamma-Butyrolactone	96-48-0	14.30



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Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	>= 1.00 - <= 5.00
Naphthalene	91-20-3	<= 1.00
Other ingredients (non-hazardous) to		
100%		

SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

Inhalation

Move to fresh air. Keep patient warm and at rest. Oxygen or artificial respiration if needed. When symptoms persist or in all cases of doubt seek medical advice.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

Remove contact lens and rinse eyes immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion

Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Keep patient warm and at rest. Do not induce vomiting or give anything by mouth to an unconscious person. Obtain medical attention.

Notes to physician

Symptoms

Local:, Skin, eye and mucous membrane irritation, Systemic:, Headache, Vomiting, Lethargy, Muscle twitching, Liver and kidney injuries may occur., Hypotension, High blood pressure, If large amounts are ingested, the following symptoms may occur:, Stupor, Coma, Respiratory failure, Aspiration may cause pulmonary oedema and pneumonitis.

Treatment

Treat symptomatically.

Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. Forced alkaline diuresis and hemodialysis may be considered.

In case of aspiration intubation and bronchial lavage should be considered.

in case of aspiration initiation and bronchial lavage should be considered

There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Foam

Carbon dioxide (CO2)

Dry powder

Water spray

Hazards from combustion products

In the event of fire the following may be released:

Carbon monoxide (CO)

Hydrogen chloride (HCI)

Chlorine



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Hydrogen fluoride Nitrogen oxides (NOx) Sulphur oxides Hydrogen cyanide (hydrocyanic acid)

Precautions for fire-fighting

Wear self-contained breathing apparatus and protective suit.

Evacuate personnel to safe areas.

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces.

Remove all sources of ignition.

Use personal protective equipment.

When dealing with a spillage do not eat, drink or smoke.

Keep unauthorized people away.

Environmental precautions

Contain contaminated water and fire fighting water.

Do not allow to get into surface water, drains and ground water.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated gloves, including the inside, before re-use.

Wash hands immediately after work, if necessary take a shower.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers

Keep out of the reach of children.

Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep away from direct sunlight.

Flammability

C1 Combustible Liquids Flash Point > 60 °C - <= 150 °C



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Naphthalene	91-20-3	10 ppm (TWA)		OES BCS
Naphthalene	91-20-3	52 mg/m3 / 10 ppm (TWA)	08 2005	AU OEL
Naphthalene	91-20-3	79 mg/m3 / 15 ppm (STEL)	08 2005	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

Biological limit values

none

Personal protective equipment - End user

General advice Eye wash facility and safety shower should be available.

Respiratory protection AS/NZS 1715/1716 approved respirator

Hand protection Elbow-length PVC or nitrile gloves

Eye protection Face-shield or goggles

Skin and body protection Cotton overall buttoned to the neck and wrist

Washable hat

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid, clear Colour yellow to red-brown

Odour aromatic

Safety data

pH 3.0 - 6.0 at 1 % (23 °C)

Measuring at room temperature 23 °C ± 3 °C

Flash point 102 °C

Ignition temperature 450 °C

The data refer to the solvent.

Upper explosion limit 7 %(V)

The data refer to the solvent.

Lower explosion limit 0.6 %(V)

The data refer to the solvent.

Vapour pressure no data available



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Relative vapour density no data available

Density ca. 1.05 g/cm3 at 20 °C

Water solubility emulsifiable

Partition coefficient: n-

octanol/water

no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid Elevated temperatures

Heat, flames and sparks.

Materials to avoid Strong oxidizing agents

> Strong acids Strong bases

Hazardous Decomposition

Products

Thermal decomposition can lead to release of:

Carbon monoxide

Hydrogen chloride (HCI)

Chlorine

Hydrogen fluoride Nitrogen oxides (NOx) Sulphur oxides

Hydrogen cyanide (hydrocyanic acid)

Hazardous reactions Corrosive to steel and iron alloys.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Inhalation Harmful if inhaled. High concentration of vapours may cause

irritation to eyes and respiratory system and produce narcotic effects. Inhalation may cause central nervous system effects.

Skin Irritating to skin. Repeated or prolonged exposure may cause skin

irritation and dermatitis, due to degreasing properties of the product.

May cause irreversible eye damage. Eye

Ingestion Harmful if swallowed. Small amounts of the solvent in this product

> aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury. This product causes reversible cholinesterase inhibition without long term effects.

Acute oral toxicity LD50 (rat) > 5,000 mg/kg

LC50 (rat) > 5,465 mg/m3Acute inhalation toxicity

Exposure time: 4 h

Acute dermal toxicity LD50 (rat) > 2,000 mg/kg

Skin irritation Slight irritation



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Eye irritation Moderate eye irritation.

Sensitisation Sensitising

Chronic toxicity MCPA-2-ethylhexyl ester did not cause specific target organ toxicity

in experimental animal studies.

Pyrasulfotole did not cause specific target organ toxicity in

experimental animal studies.

Assessment Mutagenicity

MCPA-2-ethylhexyl ester was not mutagenic or genotoxic in a battery of in vitro and in vivo

Pyrasulfotole was not genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity

MCPA-2-ethylhexyl ester was not carcinogenic in lifetime feeding studies in rats and mice. Pyrasulfotole caused at high dose levels an increased incidence of tumours in the following organ(s): cornea, urinary bladder. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

This product contains ≥ 1% naphthalene. Naphthalene caused an increased incidence of tumours after chronic inhalation of high vapour concentrations in the following organ: Respiratory Tract. The tumours seen with naphthalene were caused through a non-genotoxic mechanism, which is not relevant at low doses.

Assessment toxicity to reproduction

MCPA-2-ethylhexyl ester did not cause reproductive toxicity in a two-generation study in rats.

Pyrasulfotole did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

MCPA-2-ethylhexyl ester caused developmental toxicity only at dose levels toxic to the dams. MCPA-2-ethylhexyl ester caused a delayed foetal growth.

Pyrasulfotole did not cause developmental toxicity in rats and rabbits.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 3.2 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient MCPA 2-

ethylhexyl ester.

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient pyrasulfotole.

Toxicity to aquatic

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient MCPA 2-

EC50 (Water flea (Daphnia magna)) 0.28 mg/l

ethylhexyl ester.



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Toxicity to aquatic EC50 (Water flea (Daphnia magna)) > 100 mg/l

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient pyrasulfotole.

Toxicity to aquatic plants EC50 (Navicula pelliculosa) 1.2 mg/l

Exposure time: 120 h

The value mentioned relates to the active ingredient MCPA 2-

ethylhexyl ester.

Toxicity to aquatic plants EC50 (Pseudokirchneriella subcapitata) 29.8 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient pyrasulfotole.

Toxicity to other organisms LD50 (Colinus virginianus (Bobwhite quail)) 2,250 mg/kg

The value mentioned relates to the active ingredient MCPA 2-

ethylhexyl ester.

Toxicity to other organisms LD50 (Colinus virginianus (Bobwhite quail)) > 2,000 mg/kg

The value mentioned relates to the active ingredient pyrasulfotole.

Biodegradability Readily biodegradable.

aerobic

The value mentioned relates to the active ingredient MCPA 2-

ethylhexyl ester.

Biodegradability Not readily biodegradable.

The value mentioned relates to the active ingredient pyrasulfotole.

Stability in soil in Field trial: DT50 4 - 31 d. aerobic

The value mentioned relates to the active ingredient pyrasulfotole.

Bioaccumulation The value mentioned relates to the active ingredient MCPA 2-

ethylhexyl ester.

low

Additional Environmental

Information

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Metal drums and plastic containers:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number 3082
Class 9
Subsidiary Risk None



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Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(MCPA-2-ETHYLHEXYL ESTER SOLUTION)

Hazchem Code •3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN number 3082
Class 9
Subsidiary Risk None
Packaging group III
EmS F-A, S-F

Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(MCPA-2-ETHYLHEXYL ESTER SOLUTION)

IATA

UN number 3082
Class 9
Subsidiary Risk None
Packaging group III
Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(MCPA-2-ETHYLHEXYL ESTER SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994

Australian Pesticides and Veterinary Medicines Authority approval number: 62652

See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information

Precept® is a registered trademark of the Bayer Group.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.



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Further details on the Occupational Exposure Standards mentioned in Section 8:

CEILING: Ceiling Limit Value

OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure. TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF SDS